Project : IMPROVEMENT OF THE SOM BUILDING PHASE 1 Reference No. : Site Location : Phase: Masterplan Area: Repair (Ph.1)

Prepared By: Checked & Approved By: Revision No. :

Date:

NOTES

>The Plans, Detailed Drawings, Specifications, Detailed Bill of Quantities, Terms of Reference, Contract Agreement and other Bid Documents shall be considered as complementing each other, so that what is mentioned or shown in one, although not mentioned in the other, shall be considered as appearing in both. In case of conflict between the two, the same should be referred to the Designing A rchitect/Engineer for resolution with the aproval of the Head of Procuring Entity.

>The construction shall be finished with first class workmanship to the satisfaction of the Head of Procuring Entity.

>The items, description and quantities given on the first three columns of the Bill of Quantities /Bid Form, guides only to the owner/bidder interpreting the plans and technical specifications. The owner is not responsible for any mistakes, inaaccuracies, duplications, or omissions in these list of the Bill of Quantities/Bid Form which shall never be a basis for additions nor deletions to the sc ope (Door

>The unit and total bid prices must include all direct and indirect cost/expenses such as overhead, contingencies and miscellaneous (OCM); profit; value added tax and other obligations of any kind under which the contract must be borne by the Bidder since they are necessary to install, construct and complete the whole of the contract in accordance with the bid documents.

>The Grand Total Cost shall iclude the supply, delivery, installation of materials, labor, construction supervision and equipment including testing and commissioning of equipment by the contractor.

| BILL OF QUANTITIES | | | | | | | | | | | | | | | |
|--------------------|---|--------------------|-------------|----------|-----------|---------------|--------------------------|---------------------|--------|---------------|-------|------------|----------------|-------------|-------------|
| | | | | | | | | Mark-ups in Percent | | Total Mark Up | | | Total Indirect | T. (.) 0 (| 11-12-01-14 |
| Item No. | Description | Qty | Unit | Material | Equipment | Labor Cost | Estimated Direct Cost | осм | Profit | 0/ | Value | VAT | Cost | Total Cost | Unit Cost |
| | | - | | Cost | Cost | | | OCM | Profit | %age | 10 | 11 | 12 | 13 | 14 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 7+8 | % x (5+10) | 10+ 11 | 6 + 12 | (13) / (1) |
| | | | | | | | | % | % | | | % | | | |
| 1.0 | GENERAL REQUIREMENTS | | | | | | | | | | | | | | |
| 1.1 | Mobilization and Demobilization | 1.00 | lot | | | | | | | | | | | | |
| 1.2 | Safety Occupational Hazards | 1.00 | lot | | | | | | | | | | | | |
| 1.3 | As- Built Plans | 1.00 | lot | | | | | | | | | | | | |
| 1.4 | Clearing, cleaning, and Hauling of Debris | 1.00 | lot | | | | | | | | | | | | |
| 3.0 | STRUCTURAL WORKS | | | | | | | | | | | | | | |
| 3.A | CONCRETE WORKS/REINFORCEMENT/SCAFFOLDING/FORMS | | | | | | | | | | | | | | |
| 3.1 | Concrete Forms and Accessories | 165.50 | sq.m | | | | | | | | | | | | |
| 3.1.1 | Parapet Wall | 165.50 | sq.m | | | | | | | | | | | | |
| 3.2 | Steel Scaffolding | 600.00 | Lin.m | | | | | | | | | | | | |
| 3.2.1 | Steel Pipes and Clamps | 600.00 | Lin.m | | | | | | | | | | | | |
| 3.3 | Concrete Reinforcement | 798.52 | kgs | | | | | | | | | | | | |
| 3.3.1 | Parapet Wall | 798.52 | kgs | | | | | | | | | | | | |
| 3.4 | Cast-in-Place Concrete | 11.55 | cu.m | | | | | | | | | | | | |
| 3.4.1 | Parapet Wall, 3000 psi | 11.55 | cu.m | | | | | | | | | | | | |
| | Other work items not mentioned in item 3.0 but necessary t | to complete (Pleas | e identify) | | | | | | | | | | | | |
| 4.0 | ARCHITECTURAL WORKS | | | | | | | | | | | | | | |
| 4.A | Masonry Works | | | | | | | | | | | | | | |
| 4.1 | Installation of 6" thk CHB Wall | 104.36 | sq.m | | | | | | | | | | | | |
| 4.1.1 | CHB 6" | 1,304.50 | pcs | | | | | | | | | | | | |
| 4.1.2 | Cement | 115.00 | bags | | | | | | | | | | | | |
| 4.1.3 | Sand Coarse | 9.00 | cu.m | | | | | | | | | | | | |
| 4.1.4 | Reinforcement (10mm dia) | 60.00 | lgths | | | | | | | | | | | | |
| 4.1.5 | Tie Wires | 2.00 | kls | | | | | | | | | | | | |
| 4.2 | 20mm thk Cement Plaster for CHB walls, Canopy and Parapet | 208.72 | sq.m | | | | | | | | | | | | |
| 4.2.1 | Cement | 44.00 | bags | | | | | | | | | | | | |
| 4.2.2 | Sand Fine | 4.00 | cu.m | | | | | | | | | | | | |
| 4.C | THERMAL AND MOISTURE PROTECTION | | | | | | | | | | | | | | |
| 4.4 | 0.60mm thk Roofings installation and Gutter Fabrication | 391.37 | sq.m | | | | | | | | | | | | |
| 4.4.1 | Corrugated type Long span colorbonded roofing 0.60mm thk w/ roofing reflective insulation | 420.00 | Lin.m | | | | | | | | | | | | |
| 4.4.2 | Stainless Steel Gutter Gauge 26 | 39.50 | lm | | | | | | | | | | | | 1 |
| | Consumables & Miscellaneous | 31.40 | sq.m | | | | | | | 1 | | | | | 1 |
| 4.4.4 | WP-2 UV Resistant liquid applied membrane waterproofing | 1.00 | lot | | | | | | | | | | | | |
| 4.D | OPENINGS (Doors and Wndows) | | | | | | | | | | | | | | |
| 4.5.15 | Doors and Accessories | 3.00 | sets | | | | | | | | | | | | |
| | D2 (0.9m x 2.1m) To retain existing single leaf wooden door. (Verify on site) Apply repainting procedure. | 1.00 | set/s | | | | | | | | | | | | |
| | D9E (1.8m x 2.1m) To retain existing double leaf wooden door. (Verify on site) Apply repainting procedure. | 1.00 | set/s | | | | | | | | | | | | |

| | | | | | BILL O | F QUA | NTITIES | | | | | | | | |
|--------------|---|--------------------|--------------------|--------------|-------------------|---------------|--------------------------|----------|------------|-------|------------------|------------------|------------------------|------------|------------|
| Item No. | Description | | | Material | Equipment Cost | Labor Cost | Estimated Direct Cost | Mark-ups | in Percent | Total | Mark Up | VAT | Total Indirect Cost | Total Cost | Unit Cost |
| | | Qty | Unit | Cost | | | | осм | Profit | %age | Value | | | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 7+8 | 11 % x (5+10) | 12 10+ 11 | 6 + 12 | (13) / (1) |
| | D-15 (0.8m x 2.1m) Shall be 44mm thk. Swing type solid | 1.00 | set/s | | 1 | | | | | | | | | | |
| | wooden door panel, made from double vacuum treated kiln- | | | | | | | | | | | | | | |
| | dried (TKD) tanguile solid wood framing wooden jamb | | | | | | | | | | | | | | |
| | complete w/ locksets, hardware and accessories. | | | | | | | | | | | | | | |
| 4.6.8 | Windows and Accessories W-9 (2.4m x 0.6m) Shall be 6.28mm clear glass blade on | 1.00 | set/s | | | | | | | | | | | | 4 |
| | aluminum frame complete w/ awning window system and | 1.00 | 3673 | | | | | | | | | | | | |
| 4.E | SPECIALTIES | | | | | | | | | | | | | | |
| 4.7 | Floor Finish (FF-6) 600 x 600mm Polished CeramicTiles | 88.40 88.40 | sq.m | | | | | | | | | | | | |
| 4.7.1 | Ceramic Floor Tiles (FF-6) | 246.00 | sq.m pcs | | | | | | | | | | | | |
| | Tile Adhesive | 22.00 | bags | | | | | | | | | | | | |
| | Tile Grout | 18.00 | bags | | | | | | | | | | | | - |
| | Cutting desk | 10.00 | pcs | | | | | | | | | | | | |
| | Diamond blade cutter | 10.00 | pcs | | | | | | | | | | | | |
| | Wall Finishes | 218.10 | sq.m | | | | | | | | | | | | |
| 4.8.1 | (WF-2) Semi-gloss acrylic water-based interior paint Ceiling Finishes | 218.10 305.99 | sq.m | | | | | | | | | | | | |
| 4.9 | (CF-3) Acoustic Board Ceiling Panels (existing framing is to be | 305.99 | sq.m sq.m | | | | | | | | | | | | |
| | used) | | | | | | | | | | | | | | |
| | Moisture Resistant Boards-1.22m x 2.44m x 12mm | 120.00 | pcs. | | | | | | | | | | | | <u> </u> |
| | Main Tee 1" X 1 1/2" X 12' | 3.00 | pcs. | | | | | | | | | | | | |
| | Cross Tee 1" x 1" x 4' Cross Tee 1" x 1" x 2' | 3.00 | pcs. | | | | | | | | | | | | <u> </u> |
| | Wall Angle 1" x 1" x 10' | 3.00 | pcs. | | | | | | | | | | | | <u> </u> |
| | Twisted Hanger 1" x 1" x 2' | 4.00 | pcs. | | | | | | | | | | | | |
| | Expansion Shield 1/4" | 3.00 | pcs. | | | | | | | | | | | | |
| | Threaded Bolt With Nut 1/4" x 3M | 2.00 | pcs. | | | | | | | | | | | | |
| | Concrete Nail 1/4" | 2.00 | kls | | | | | | | | | | | | L |
| 4.9.2 | (CF-2) Moisture Resistance Gypsum Panel Board (12mm) | 32.00 13.00 | sq.m | | | | | | | | | | | | |
| | Moisture Resistant Boards-1.22m x 2.44m x 12mm Main Tee 1" X 1 1/2" X 12' | 2.00 | pcs. pcs. | | | | | | | | | | | | + |
| | Cross Tee 1" x 1" x 4' | 2.00 | pcs. | | | | | | | | | | | | + |
| | Cross Tee 1" x 1" x 2' | 2.00 | pcs. | | | | | | | | | | | | + |
| | Wall Angle 1" x 1" x 10' | 1.00 | pcs. | | | | | | | | | | | | |
| | Twisted Hanger 1" x 1" x 2' | 1.00 | pcs. | | | | | | | | | | | | |
| | Expansion Shield 1/4" | 1.00 | pcs. | | | | | | | | | | | | |
| | Threaded Bolt With Nut 1/4" x 3M Concrete Nail 1/4" | 1.00 | pcs. kls | | | | | | | | | | | | |
| 4 16 | Stainless Steel grating 0.2X1M {Drainage cover (façade)} | 32.70 | sq.m | This item is | included in Pha | ase 2 Improv | vement | | | | | | | | |
| | 32 x10mm Flat Bar | 678.15 | kgs | | | | | | | | | | | | - |
| | Welding Rod | 20.00 | kls | | | | | | | | | | | | |
| | Paint | 1.00 | lot | | | | | | | | | | | | |
| 04.0 | Other work items not mentioned in item 4.0 but necessary | to complete (Pleas | se identify) | | | | | | | | | | | | |
| 21.0 | FIRE PROTECTION SYSTEM FIRE PROTECTION DISTRIBUTION MATERIALS | 4.00 | units | This item is | included in Pha | ase 2 Improv | | | | | | | | - | |
| 21.1 | Fire Extinguisher 4.5 Kg - Class ABC Dry Chemical | 4.00 | pc/s | ins item is | | ase z mprov | | | | | | | | | |
| 21.1.3 | Miscellaneous and Consumable Materials | 1.00 | lot | | | | | | | | | | | | |
| | Other work items not mentioned in item 21.1 but necessary to | | | | | | | | | | | | | | |
| 21.1.4 | complete (Please identify) | | and interesting to | | | | | | | | | | | | |
| 22.0 | Other work items not mentioned in item 21.0 but necessary PLUMBING WORKS | to complete (Plea | ase identify) | | | | | | | | | | | | |
| 22.0 22.A | Storm & Drainage PVC Pipe | | | | | | | | | | | | | | |
| | Storm Drainage Lines / Weepholes / Gutter Drain | 1.00 | lot | | | | | | | | | | | | |
| | PVC Pipes, Series 1000 | | | | | | | | | | | | | | |
| | 150 mm Ø | 17.00 | length | | | | | | | | | | | | |
| | 100 mm Ø | 28.00 | length | | | | | | | | | | | | |
| 22.1.2 | Perforated Pipes | 0.00 | l e e eth | | <u> </u> | | | | | | | | | | |
| | 100 mm Ø Condensate Drains (PVC Blue pipe) | 6.00 | length | | + + | | + | | | | | + | | | + |
| 22.1.3 | 40 mm Ø | 4.00 | length | | | | | | | | | | | | + |
| | 32 mm Ø | 4.00 | length | | 1 1 | | | | | | | | | | 1 |
| | 25 mm Ø | 5.00 | length | | | | | | | | | | | | |
| 22.1.4 | Rubber Insulation | | | | | | | | | | | | | | |
| | 40 mm Ø x 2m Length x 25 mm Thick | 6.00 | pc/s | | | | | | | | | | | | 1 |

| | | | | | BILL O | F QUA | NTITIES | | | | | | | | |
|----------|--|--------------------|--------------|----------|-------------------|---------------|--------------------------|----------|------------|---------------|-------|------------|----------------|------------|------------|
| Item No. | Description | | | Material | E | 1 | Estimated Direct | Mark-ups | in Percent | Total Mark Up | | VAT | Total Indirect | Total Cost | Unit Cost |
| | | Qty | Unit | Cost | Equipment Cost | Labor Cost | Estimated Direct Cost | OCM | Profit | %age | Value | | Cost | | Unit Cost |
| | | | | | | | | | | - | 10 | 11 | 12 | 13 | 14 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 7+8 | % x (5+10) | 10+ 11 | 6 + 12 | (13) / (1) |
| | 32 mm Ø x 2m Length x 25 mm Thick | 6.00 | pc/s | | | | | | | | | | | | |
| | 25 mm Ø x 2m Length x 20 mm Thick | 8.00 | pc/s | | | | | | | | | | | | |
| 22.1.5 | Area Drain (Site Casted) | | | | | | | | | | | | | | |
| | 500 mm x 500 mm | 3.00 | nos. | | | | | | | | | | | | |
| 22.1.6 | Ceiling Clean-out | | | | | | | | | | | | | | |
| | 100 mm Ø | 5.00 | pc/s | | | | | | | | | | | | |
| 22.1.7 | Ground Clean-out (PVC) | | | | | | | | | | | | | | |
| | 150 mm Ø | 1 | pc/s | - | | | | - | - | | | | | | |
| | 100 mm Ø | 1.00 | pc/s | | | | | | | | | | | | |
| | 40 mm Ø | 2.00 | pc/s | | | | | | | | | | | | |
| 22.1.8 | Pipe for Weephole (PVC) | | | | | | | | | | | | | | |
| | 100 mm Ø | 4.00 | pc/s | | | | | | | | | | | | |
| | Pipe Connectors, Fittings and Accessories | 1.00 | lot | | | | | | | | | | | | |
| | Floor Clean-out (Brass) | 11.00 | pcs | | | | | | | | | | | | |
| 22.2.1 | Floor Clean-out (Brass) | | | | | | | | | | | | | | |
| | 32 mm Ø | 2.00 | pc/s | | | | | | | | | | | | |
| | 25 mm Ø | 1.00 | pc/s | | | | | | | | | | | | |
| 22.2.2 | Gutter Drains (Brass) | | | | | | | | | | | | | | |
| | 100 mm Ø | 8.00 | pc/s | | | | | | | | | | | | |
| | Hanger / Brackets / Supports / Concrete Saddle | 100.00 | pcs | | | | | | | | | | | | |
| | 150 mm Ø | 34.00 | pc/s | | | | | | | | | | | | |
| | 100 mm Ø | 48.00 | pc/s | | | | | | | | | | | | |
| | 32 mm Ø | 6.00 | pc/s | | | | | | | | | | | | |
| | 25 mm Ø | 12.00 | pc/s | | | | | | | | | | | | |
| | Miscellaneous / Consumables | 1.00 | lot | | | | | | | | | | | | |
| | Solvent Cement | 1.00 | gal | | | | | | | | | | | | |
| | Epoxy A&B | 1.00 | gal | | | | | | | | | | | | |
| | Cutting Saw Blade | 1.00 | pcs | | | | | | | | | | | | |
| | G.I Wire #16 | 1.00 | kgs | | | | | | | | | | | | |
| | Welding Rod | 1.00 | box | | | | | | | | | | | | |
| 22.5 | Demolition / Chipping / Hauling and disposal including restorati | 1.00 | lot | | | | | | | | | | | | |
| | Demolition / Chipping / Hauling and disposal including | | | | | | | | | | | | | | |
| | restoration works | 1.00 | lot | | - | | | | - | | | | | | - |
| | Earthworks | 1.00 | lot | | | | | | | | | | | | |
| 22.6.1 | | 1.00 | lot | | | | | | | | | | | | + |
| | Testing Works (Leak and Gravity Test) | 1.00 | lot | | - | | | | - | | | | | | |
| 22.7.1 | Testing Works (Leak and Gravity Test) | 1.00 | lot | | | | | | - | | | | | | |
| | Other work items not mentioned in item 22.0 but necessary | to complete (Pleas | se identify) | | | | | | | | | | | | 4 |
| | GRAND TOTAL COST | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | 1 |

Endorsed:

Approved: